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L1: Entry 2 of 6

File: USPT

Apr 6, 1999

DOCUMENT-IDENTIFIER: US 5891465 A

TITLE: Delivery of biologically active material in a liposomal formulation for administration into the mouth

## DEPR:

On the day of experimentation Baseline "0" melatonin levels were drawn. Two sprays of melatonin liposome spray formula was applied to sublingual area of the mouth. Saliva was allowed to accumulate for several minutes and then swallowed. Blood samples were drawn at 1/2 hour, 1 hour, 1 1/2 hours, 2 hours, 4 hours, 6 hours and 8 hours.

## CLPR:

1. A liposomal composition suitable for the aerosol or spray delivery of melatonin to a subject, said composition comprising melatonin and optionally an additional supplement in phospholipid liposomes and a carrier wherein the liposomes have between about 20 nm and 10 microns in diameter and results in absorption into the blood stream, when administered, wherein the phospholipid liposome comprises one or more bilayer forming lipids, wherein said composition provides an increase in bioavailability of said supplement or drug of approximately 20 % or more when compared to an orally administered solid form, and wherein said composition comprises by weight percent, from about 0.25 to 20% lecithin, from about 0.025 to 2% cholesterol or zoosterol or phytosterol, from about 0.01 to 3% antioxidant, from about 0.05 to 0.4% melatonin, from about 0.1 to 20% glycerin, propylene glycol or butylene glycol, from about 0.1% to 10% ethanol, from about 0.015 to 4% anti microbial agent and from about 2 to 99.9% water.

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L1: Entry 1 of 6

File: USPT

Jun 13, 2000

DOCUMENT-IDENTIFIER: US 6075045 A

TITLE: Method of treating paralysis of the extremities caused by cerebral infarction

BSPR:

Melatonin may be advantageously administered in a form in which it is encapsulated in an encapsulating matrix, liposomes or the like. Melatonin encapsulated in an encapsulating matrix or liposomes is gradually released into the blood so that its apparent residence time in the blood is increased, leading to an increase in the availability of melatonin.

BSPR:

When the melatonin is encapsulated in an encapsulating matrix or a liposome, its amount is expressed in terms of free (non-encapsulated) melatonin. Since melatonin in an encapsulated form is gradually released into the blood, its apparent residence time in the blood is longer. Thus, the melatonin blood concentration in the encapsulated form of melatonin may be lower than the above blood concentrations of melatonin in the free form.

CLPR:

4. The method of claim 1, wherein said melatonin is encapsulated in an encapsulating matrix or a liposome.

**WEST**[Generate Collection](#)**Search Results - Record(s) 1 through 6 of 6 returned.**☐ 1. Document ID: US 6075045 A

L1: Entry 1 of 6

File: USPT

Jun 13, 2000

US-PAT-NO: 6075045

DOCUMENT-IDENTIFIER: US 6075045 A

TITLE: Method of treating paralysis of the extremities caused by cerebral infarction

DATE-ISSUED: June 13, 2000

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Nishino; Hitoo	Nagoya	N/A	N/A	JPX
Borlongan; Cesario V.	Silver Spring	MD	N/A	N/A
Uneyama; Hisayuki	Kawasaki	N/A	N/A	JPX

US-CL-CURRENT: [514/419](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 2. Document ID: US 5891465 A

L1: Entry 2 of 6

File: USPT

Apr 6, 1999

US-PAT-NO: 5891465

DOCUMENT-IDENTIFIER: US 5891465 A

TITLE: Delivery of biologically active material in a liposomal formulation for administration into the mouth

DATE-ISSUED: April 6, 1999

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Keller; Brian C.	Antioch	CA	N/A	N/A
Fisher; Daniel L.	Pleasant Hill	CA	N/A	N/A
Kiss; Steven	Pittsburg	CA	N/A	N/A

US-CL-CURRENT: [424/450](#); [424/43](#), [424/45](#), [424/727](#), [424/728](#), [424/734](#), [424/737](#), [424/766](#)

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KMC	Draw Desc	Image
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☐ 3. Document ID: US 5716638 A

L1: Entry 3 of 6

File: USPT

Feb 10, 1998

US-PAT-NO: 5716638

DOCUMENT-IDENTIFIER: US 5716638 A

TITLE: Composition for applying active substances to or through the skin

DATE-ISSUED: February 10, 1998

## INVENTOR-INFORMATION:

NAME	CITY	STATE	ZIP CODE	COUNTRY
Touitou; Elka	Jerusalem	N/A	N/A	ILX

US-CL-CURRENT: 424/450; 264/4.1, 264/4.3, 424/401, 424/63

Full	Title	Citation	Front	Review	Classification	Date	Reference	Claims	KWIC	Draw Desc	Image
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☐ 4. Document ID: MX 9907684 A1, WO 9836736 A1, ZA 9801352 A, AU 9864969 A, CZ 9902925 A3, EP 981332 A1, CN 1248163 A, SK 9901110 A3, HU 200001464 A2, IT 1289938 B, KR 2000075479 A

L1: Entry 4 of 6

File: DWPI

Jun 1, 2000

DERWENT-ACC-NO: 1998-467265

DERWENT-WEEK: 200133

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TITLE: Lyophilised composition - comprises trehalose and lipid liposome(s) including water insoluble biologically active component

INVENTOR: CAVALLO, G; MARCHITTO, L

PRIORITY-DATA: 1997IT-MI00362 (February 20, 1997)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
MX 9907684 A1	June 1, 2000	N/A	000	A61K009/127
WO 9836736 A1	August 27, 1998	E	020	A61K009/127
ZA 9801352 A	October 28, 1998	N/A	020	A61K000/00
AU 9864969 A	September 9, 1998	N/A	000	A61K009/127
CZ 9902925 A3	January 12, 2000	N/A	000	A61K009/127
EP 981332 A1	March 1, 2000	E	000	A61K009/127
CN 1248163 A	March 22, 2000	N/A	000	A61K009/127
SK 9901110 A3	May 16, 2000	N/A	000	A61K009/127
HU 200001464 A2	October 30, 2000	N/A	000	A61K009/127
IT 1289938 B	October 19, 1998	N/A	000	A61K000/00
KR 2000075479 A	December 15, 2000	N/A	000	A61K009/127

INT-CL (IPC): A61K 0/00; A61K 9/127; A61K 9/19; A61K 31/41; A61K 38/13; B01F 0/00; B01J 0/00

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw Desc	Image
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☐ 5. Document ID: MX 9907683 A1, WO 9836735 A1, ZA 9801354 A, AU 9863987 A, CZ 9902926 A3, EP 973505 A1, SK 9901111 A3, CN 1255057 A, HU 200000910 A2, IT 1289939 B, KR 2000075480 A

L1: Entry 5 of 6

File: DWPI

Jun 1, 2000

DERWENT-ACC-NO: 1998-467264

DERWENT-WEEK: 200133

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TITLE: Aqueous pharmaceutical compositions - comprise active ingredient highly insoluble in water, e.g. lonidamine, melatonin, cyclosporin A or bindarit, dispersed in liposomes

INVENTOR: CAVALLO, G; MARCHITTO, L

PRIORITY-DATA: 1997IT-MI00363 (February 20, 1997)

## PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
MX 9907683 A1	June 1, 2000	N/A	000	A61K009/127
WO 9836735 A1	August 27, 1998	E	020	A61K009/127
ZA 9801354 A	October 28, 1998	N/A	017	A61K000/00
AU 9863987 A	September 9, 1998	N/A	000	A61K009/127
CZ 9902926 A3	January 12, 2000	N/A	000	A61K009/127
EP 973505 A1	January 26, 2000	E	000	A61K009/127
SK 9901111 A3	June 12, 2000	N/A	000	A61K009/127
CN 1255057 A	May 31, 2000	N/A	000	A61K009/127
HU 200000910 A2	October 30, 2000	N/A	000	A61K009/127
IT 1289939 B	October 19, 1998	N/A	000	A61K000/00
KR 2000075480 A	December 15, 2000	N/A	000	A61K009/127

INT-CL (IPC): A61K 0/00; A61K 9/127; A61K 31/192; A61K 31/416; A61P 15/08

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KVMC	Draw Desc	Image
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☐ 6. Document ID: JP 2000510841 W, WO 9742938 A1, US 5891465 A, EP 928189 A1

L1: Entry 6 of 6

File: DWPI

Aug 22, 2000

DERWENT-ACC-NO: 1998-008557  
DERWENT-WEEK: 200045  
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TITLE: Liposomal formulation for administration as aerosol or liquid droplet  
spray - for drug or nutritional supplement administration either orally or  
nasally

INVENTOR: FISHER, D L; KELLER, B C ; KISS, S

PRIORITY-DATA: 1996US-0645894 (May 14, 1996)

PATENT-FAMILY:

PUB-NO	PUB-DATE	LANGUAGE	PAGES	MAIN-IPC
JP 2000510841 W	August 22, 2000	N/A	028	A61K009/127
WO 9742938 A1	November 20, 1997	E	032	A61K009/127
US 5891465 A	April 6, 1999	N/A	000	A61K009/127
EP 928189 A1	July 14, 1999	E	000	A61K009/127

INT-CL (IPC): A61K 9/12; A61K 9/127

Full	Title	Citation	Front	Review	Classification	Date	Reference
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KWIC	Draw. Desc	Image
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USPT,JPAB,EPAB,DWPI,TDBD	11 and thrombosis	1	<u>L3</u>
USPT,JPAB,EPAB,DWPI,TDBD	11 and edema	1	<u>L2</u>
USPT,JPAB,EPAB,DWPI,TDBD	melatonin same liposome\$	6	<u>L1</u>

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**Refine Search:**

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USPT,JPAB,EPAB,DWPI,TDBD	11 and thrombosis	1	<a href="#">L3</a>
USPT,JPAB,EPAB,DWPI,TDBD	11 and edema	1	<a href="#">L2</a>
USPT,JPAB,EPAB,DWPI,TDBD	melatonin same liposome\$	6	<a href="#">L1</a>